

PATENT  
18810-81553

July 2, 2001


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Daniel H. Cohn, Muhammad Faiyaz ul Haque, Lily M. King and  
Deborah Krakow  
Serial No. UNASSIGNED  
Filed: Herewith  
For: GENETIC MARKER FOR SPONDYLOEPIMETAPHYSEAL  
DYSPLASIA

Examiner: Unknown

Unit: --

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Dear Sir:

Applicant's attorney submits herewith copies of the patents and/or other literature of which he is aware, that he believes may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56.

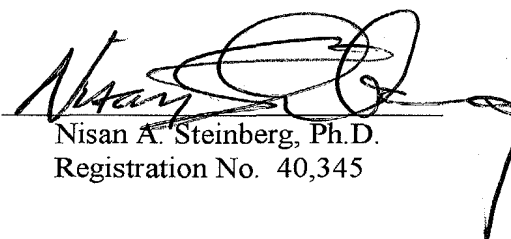
Applicant's attorney further submits herewith Form PTO-1449, "Information Disclosure Statement" by Applicant. A copy of each of the disclosed patents and other references listed as other documents Nos. 1-71 is not being submitted herewith, because under Rule 37 C.F.R. § 1.98(d) this art was previously cited by the Examiner and/or the Applicant in connection with U.S. Serial No. 09/399,212, filed September 17, 1999. This previously filed Application was cited by applicant in this present Application per 35 U.S.C. §§ 120 and 119(e).



The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists (37 C.F.R. 1.97(h)). Further the filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

This information disclosure statement is being filed herewith along with a divisional application and believe there is no fee involved. However, the Commissioner is hereby authorized to charge any fees required to Deposit Account No. 50-1597.

Respectfully submitted,

By:   
Nisan A. Steinberg, Ph.D.  
Registration No. 40,345

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List of Patents and Publications for Applicants Information Disclosure Statement	APPLICANT: <b>Cohn et al.</b>	
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JC971 U.S. PTO

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,106,626	04/21/92	Parsons et al.			
	5,525,500	06/11/96	Khandke et al.			
	5,627,050	05/06/97	Takeshita et al.			
	5,750,651	05/12/98	Oppermann et al.			
	5,869,273	02/09/99	Klock			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	TRANSLATION No

## OTHER ART (Including Author, title, Date, Pertinent Pages, Etc.)

1.	Adams, T. E., <i>Differential expression of growth hormone receptor messenger RNA from a second promoter</i> , <u>Mol Cell Endocrinol</u> , 108(1-2):23-33 (Feb 27, 1995). ABSTRACT ONLY.
2.	Ahmad M. et al., <i>Distinct, autosomal recessive form of spondyloepimetaphyseal dysplasia segregating in an inbred Pakistani kindred</i> , <u>Am J. Med Genet</u> , 78(5):468-73, (Aug 6, 1998).
3.	Alexcev, V. et al., <i>Stable and inheritable changes in genotype and phenotype of albino melanocytes induced by an RNA-DNA oligonucleotide</i> , <u>Nat Biotechnol</u> , 16(13):1343-6 (Dec 1998). ABSTRACT ONLY.
4.	Apte, S. S. et al., <i>Characterization of the mouse type X collagen gene</i> , <u>Matrix</u> 13(2):165-79 (Mar 1993). ABSTRACT ONLY.
5.	Ballo, R. et al., <i>Multiple epiphyseal dysplasia, ribbing type: a novel point mutation in the COMP gene in a South African family</i> , <u>Am J. Med Genet</u> , 68(4):396-400 (Feb 11, 1997). ABSTRACT ONLY
6.	Beier, F., et al., <i>Localization of silencer and enhancer elements in the human type X collagen gene</i> , <u>J Cell Biochem</u> 66(2):210-8 (Aug 1997). ABSTRACT ONLY.

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7.	Boffa, M. B., <i>Characterization of the gene encoding human TAFI (thrombinactivable fibrinolysis inhibitor; plasma procarboxypeptidase B)</i> , <u>Biochemsitry</u> , 38(20):6547-58 (May 18, 1999). ABSTRACT ONLY.
8.	Bonaventure, J. et al., <i>Common mutations in the gene encoding fibroblast growth factor receptor 3 account for achondroplasia, hypochondroplasia and thanatophoric dysplasia</i> , <u>Acta Paediatr Suppl</u> , 417:33-8 (Oct 1996). ABSTRACT ONLY.
9.	Briggs, M.D. et al., <i>Genetic mapping of a locus for multiple epiphyseal dysplasia (EDM2) to a region of chromosome 1 containing a type IX collagen gene</i> , <u>Am J. Hum Genet</u> , 55(4):678-84 (Oct 1994). ABSTRACT ONLY
10.	Briggs, M. D. et al., <i>Pseudoachondroplasia and multiple epiphyseal dysplasia due to mutations in the cartilage oligomeric matrix protein gene</i> , <u>Nat Genet</u> , 10(3):330-6 (Jul 1995). ABSTRACT ONLY.
11.	Briggs, M. D. et al., <i>Diverse mutations in the gene for cartilage oligomeric matrix protein in the pseudoachondroplasia-multiple epiphyseal dysplasia disease spectrum</i> , <u>Am J. Hum Genet</u> , 62(2):311-9 (Feb 1998). ABSTRACT ONLY.
12.	Chen, J. et al., <i>Hepatocyte nuclear factor 1 binds to and transactivates the human but not the rat CYP7A1 promoter</i> , <u>Biochem Biophys Res Commun</u> , 260(3):829-34 (Jul 14, 1999). ABSTRACT ONLY.
13.	Chen, X. L. et al., <i>Analysis of a 762-bp Proximal Leptin Promoter to Drive and Control Regulation of Transgene Expression of Growth Hormone Receptor in Mice</i> , <u>Biochem Biophys Res Commun</u> , 262(1):187-192 (Aug 19, 1999). ABSTRACT ONLY.
14.	Cole-Strauss, A. et al., <i>Correction of the mutation responsible for sickle cell anemia by an RNA-DNA oligonucleotide</i> , <u>Science</u> , 273(5280):1386-9 (Sep 6, 1996). ABSTRACT ONLY.
15.	Cole-Strauss, A. et al., <i>Targeted gene repair directed by the chimeric RNA/DNA oligonucleotide in a mammalian cell-free extract</i> , <u>Nucleic Acids Res</u> , 27(5):1323-30 (Mar 1, 1999). ABSTRACT ONLY.
16.	Deyrup, A. T. et al., <i>Deletion and site-directed mutagenesis of the ATP-binding motif (P-loop) in the bifunctional murine ATP-sulfurylase/adenosine 5'-phosphosulfate kinase enzyme</i> , <u>J Biol Chem</u> , 273(16):9450-6 (Apr 17, 1998).
17.	Dharmavaram, R. M., et al., <i>Detection and characterization of Sp1 binding activity in human chondrocytes and its alterations during chondrocyte dedifferentiation</i> , <u>J. Biol Chem</u> , 272(43):26918-25 (Oct 24 1997). ABSTRACT ONLY.
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19.	Figuera, L. E. et al., <i>Spondyloepimetaphyseal dysplasia (SEMD) Shohat type</i> , <u>Am J. Med Genet</u> , 51(3):213-5 (Jul 1994). ABSTRACT ONLY.
20.	Ganguly, A., et al., <i>Targeted insertions of two exogenous collagen genes into both alleles of their endogenous loci in cultured human cells: the insertions are directed by relatively short fragments containing the promoters and the 5' ends of the genes</i> , <u>Proc Natl Acad Sci USA</u> , 91(15):7365-9 (Jul 19 1994). ABSTRACT ONLY.
21.	Gertner, J. M. et al., <i>Linkage studies of a Missouri kindred with autosomal dominant spondyloepimetaphyseal dysplasia (SEMD) indicate genetic heterogeneity</i> , <u>J Bone Miner Res</u> , 12(8):1204-9 (Aug 12, 1997). ABSTRACT ONLY.
22.	Girard, J. P. et al., <i>Biosynthesis of sulfated L-selectin ligands in human high endothelial venules (HEV)</i> , <u>GlycoImmunology</u> , 2:55-62 (1998).
23.	Girard, J. P. et al., <i>Sulfation in high endothelial venules: cloning and expression of the human PAPS synthetase</i> , <u>FASEB</u> , 12(7):603-12 (May 1998).
24.	Ikegawa, S. et al., <i>Novel and recurrent COMP (cartilage oligomeric matrix protein) mutations in pseudoachondroplasia and multiple epiphyseal dysplasia</i> , <u>Hum Genet</u> , 103(6):633-8 (Dec 1998). ABSTRACT ONLY.

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25.	Jacenko, O. et al., <i>Transgenic mouse models in studies of skeletal disorders</i> , <u>J Rheumatol Suppl</u> 43:39-41 (Feb 1995). ABSTRACT ONLY.
26.	Jiang, H. et al., <i>Isolation and characterization of a novel promoter for the bovine growth hormone receptor gene</i> , <u>J Biol Chem</u> , 274(12):7893-900 (Mar 19, 1999). ABSTRACT ONLY.
27.	Kanai, Y et al., <i>Structural and functional characterization of the mouse Sox9 promoter: implications for campomelic dysplasia</i> , <u>Hum Mol Genet</u> , 8(4):691-6 (Apr 1999). ABSTRACT ONLY.
28.	Kant, S. G. et al., <i>Acromesomelic dysplasia Maroteau type maps to human chromosome 9</i> , <u>Am J Hum Genet</u> , 63(1):155-62 (Jul 1998). ABSTRACT ONLY.
29.	Kanzler, S. et al., <i>TGF-beta1 in liver fibrosis: an inducible transgenic mouse model to study liver fibrogenesis</i> , <u>Am J Physiol</u> , 276(4 Pt 1):G1059-68 (Apr 1999). ABSTRACT ONLY.
30.	Kren, B. T. et al., <i>Gene repair using chimeric RNA/DNA oligonucleotides</i> , <u>Semin Liver Dis</u> , 19(1):93-104 (1999). ABSTRACT ONLY.
31.	Kurima, K. et al., <i>A member of a family of sulfate-activating enzymes causes murine brachymorphism</i> , <u>Proc Natl Acad Sci USA</u> , 95(15):8681-5 (Jul 21, 1998).
32.	Lec, B. et al., <i>Identification of the molecular defect in a family with spondyloepiphyseal dysplasia</i> , <u>Science</u> , 244(4907):978-80 (May 26, 1989). ABSTRACT ONLY.
33.	Lefebvre, V., et al., <i>An 18-base-pair sequence in the mouse proalpha1(II) collagen gene is sufficient for expression in cartilage and binds nuclear proteins that are selectively expressed in chondrocytes</i> , <u>Mol Cell Biol</u> , 16(8):4512-23 (Aug 16, 1996). ABSTRACT ONLY.
34.	Li, H. et al., <i>The isolation and characterization of cDNA encoding the mouse bifunctional ATP sulfurylase-adenosine 5'-phosphosulfate kinase</i> , <u>J Biol Chem</u> , 270(49):29453-9 (Dec 8, 1995).
35.	Li, Y et al., <i>Murine models of human genetic skeletal disorders</i> , <u>Matrix Biol</u> , 16(2):49-52. (May 1997). ABSTRACT ONLY.
36.	Lyle, S. et al., <i>Rat chondrosarcoma ATP sulfurylase and adenosine 5'-phosphosulfate kinase reside on a single bifunctional protein</i> , <u>Biochemistry</u> , 33(19):5920-5 (May 17, 1994). ABSTRACT ONLY.
37.	Lyle, S. et al., <i>Intermediate channeling between ATP sulfurylase and adenosine 5'-phosphosulfate kinase from rat chondrosarcoma</i> , <u>Biochemistry</u> , 33(22):6822-7 (Jun 1994). ABSTRACT ONLY.
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39.	Meton, I et al., <i>Growth hormone induces insulin-like growth factor-I gene transcription by a synergistic action of STAT5 and HNF-1alpha</i> , <u>FEBS Lett</u> , 444(203):155-59 (Feb 12, 1999). ABSTRACT ONLY.
40.	Mukhopadhyay, K., et al., <i>Use of a new rat chondrosarcoma cell line to delineate a 119-base pair chondrocyte-specific enhancer element and to define active promoter segments in the mouse pro-alpha 1(II) collagen gene</i> , <u>J. Biol Chem</u> , 270(46):27711-9 (Nov 17 1995). ABSTRACT ONLY.
41.	Newberry, E. P. et al., <i>The RRM Domain of MINT, a Novel Msx2 Binding Protein, Recognizes and Regulates the Rat Osteocalcin Promoter</i> , <u>Biochemistry</u> , 38(33): 10678-10690 (Aug 17, 1999). ABSTRACT ONLY.
42.	Nitta, M. et al., <i>CPF: an orphan nuclear receptor that regulates liver-specific expression of the human cholesterol 7alpha-hydroxylase gene</i> , <u>Proc Natl Acad Sci USA</u> , 96(12):6660-5 (Jun 8, 1999). ABSTRACT ONLY.
43.	Pastore, L. et al., <i>Use of a liver-specific promoter reduces immune response to the transgene in adenoviral vectors</i> , <u>Hum Gene Ther</u> , 10(11):1773-81 (Jul 20, 1999). ABSTRACT ONLY.
44.	Rosenthal, e. et al., <i>A multifunctional Urechis caupo protein, PAPS synthetase, has both ATP sulfurylase and APS kinase activities</i> , <u>Gene</u> , 165(2):243-8 (Nov 20, 1995). ABSTRACT ONLY.
45.	Schwarze, Steven R. et al., <i>In vivo Protein Transduction: Delivery of a Biologically Active Protein Into the Mouse</i> , <u>Science</u> , Vol. 285, pp. 1569-1572 (Sep 3, 1999).

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46.	Schwartz, N. B. et al., <i>Sulfate activation and transport in mammals: system components and mechanisms</i> , <u>Chem Biol Interact</u> , 109(1-3):143-51 (Feb 20, 1998).
47.	Seghatoleslami, M. R., et al., <i>Differential regulation of COL2A1 expression in developing and mature chondrocytes</i> , <u>Matrix Biol</u> , 14(9):753-64 (Dec 1995). ABSTRACT ONLY.
48.	Shohat, M. et al., <i>New form of spondyloepimetaphyseal dysplasia (SEMD) in Jewish family of Iraqi origin</i> , <u>Am J Med Genet</u> , 46(4):358-62 (Jun 1, 1993). ABSTRACT ONLY.
49.	Sokolov, B. P., et al., <i>Tissue-specific expression of the gene for type I procollagen (COL1A1) in transgenic mice. Only 476 base pairs of the promoter are required if collagen genes are used as reporters</i> , <u>J. Biol Chem</u> , 270(16):9622-9 (Apr 21, 1995). ABSTRACT ONLY.
50.	Steimberg, N. et al., <i>SV40 large T antigen expression driven by col2a1 regulatory sequences immortalizes articular chondrocytes but does not allow stabilization of type II collagen expression</i> , <u>Exp Cell Res</u> , 249(2):248-59 (Jun 15, 1999). ABSTRACT ONLY.
51.	Strauss, Evelyn, <i>Introducing Proteins Into the Body's Cells</i> , <u>Science</u> , Vol. 285, pp. 1466-1467 (Sep 3, 1999).
52.	Sugahara, K. et al., <i>Defect in 3'-phosphoadenosine 5'-phosphosulfate formation in brachymorphic mice</i> , <u>Proc Natl Acad Sci USA</u> , 76(12):6615-8 (Dec 1979). ABSTRACT ONLY.
53.	Superti-Furga, A. et al., <i>A chondrodysplasia family produced by mutations in the diastrophic dysplasia sulfate transporter gene: genotype/phenotype correlations</i> , <u>Am J Med Genet</u> , 63(1):144-7 (May 1996). ABSTRACT ONLY.
54.	Tewari, D. S., <i>Characterization of the promoter region and 3' end of the human insulin receptor gene</i> , <u>J Biol Chem</u> , 264(27):16238-45 (Sep 25 1989). ABSTRACT ONLY.
55.	Thomas, J. T., et al., <i>Sequence comparison of three mammalian type-X collagen promoters and preliminary functional analysis of the human promoter</i> , <u>Gene</u> 160(2):291-6 (Jul 28, 1995). ABSTRACT ONLY.
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58.	Venkatachalam, K. V. et al., <i>Molecular cloning, expression, and characterization of human bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase and its functional domains</i> , <u>J. Biol Chem</u> , 273(30):19311-20 (Jul 24, 1998).
59.	Venkatachalam, K. V. et al., <i>Site-selected mutagenesis of a conserved nucleotide binding HXGH motif located in the ATP sulfurylase domain of human bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase</i> , <u>J Biol Chem</u> , 274(5):2601-4 (Jan 29, 1999).
60.	Vikkula, M., et al., <i>Structural analysis of the regulatory elements of the type-II procollagen gene. Conservation of promoter and first intron sequences between human and mouse</i> , <u>Biochem J</u> , 285(Pt 1):287-94 (Jul 1, 1992). ABSTRACT ONLY.
61.	Vincent, J. et al., <i>Oligonucleotides as short as 7-mers can be used for PCR amplification</i> , <u>DNA Cell Biol</u> , 13(1):75-82 (Jan 1994). ABSTRACT ONLY.
62.	Wallis, G. A., <i>Cartilage disorders. The importance of being sulphated</i> , <u>Curr Biol</u> , 5(3):225-7 (Mar 1, 1995).
63.	Wilcox, D. A. et al., <i>Integrin alphaIIb promoter-targeted expression of gene products in megakaryocytes derived from retrovirus-transduced human hematopoietic cells</i> , <u>Proc Natl Acad Sci USA</u> , 96(17):9654-9659 (Aug 17, 1999). ABSTRACT ONLY.

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64.	Xiang, Y. et al., <i>Targeted gene conversion in a mammalian CD34<sup>+</sup>-enriched cell population using a chimeric RNA/DNA oligonucleotide</i> , <u>J Mol Med</u> , 75(11-12):829-35 (Nov-Dec 1997). ABSTRACT ONLY.
65.	Xie, W.F. et al. <i>Trans-activation of the mouse cartilage-derived retinoic acid-sensitive protein gene by Sox9</i> , <u>J Bone Miner Res</u> , 14(5):757-63 (May 1999). ABSTRACT ONLY.
66.	Yamada, K. et al. <i>The histochemistry of complex carbohydrates in certain organs of homozygous brachymorphic (bm/bm) mice</i> , <u>Histochem J</u> , 16(6):587-99 (Jun 1984). ABSTRACT ONLY.
67.	Yanagisawa, K. et al., <i>cDNA cloning, expression, and characterizaiton of the human bifunctional ATP sulfuryklase/adenosine 5'-phophosulfate kinase enzyme</i> , <u>Biosci Biotechnol Biochem</u> , 62(5):1037-40 (May 1998). ABSTRACT ONLY.
68.	Yoon, K. et al., <i>Targeted gene correction of episomal DNA in mammalian cells mediated by a chimeric RNA.DNA oligonucleotide</i> , <u>Proc Natl Acad Sci USA</u> , 93(5):2071-6 (Mar 1996). ABSTRACT ONLY.
69.	Zhou, G., et al., <i>A 182 bp fragment of the mouse pro alpha 1(II) collagen gene is sufficient to direct chondrocyte expression in transgenic mice</i> , <u>J Cell Sci</u> , 108(Pt 12):3677-84 (Dec 1995). ABSTRACT ONLY.
70.	Zou, I et al., <i>Isolation of a liver-specific promoter for human growth hormone receptor gene</i> , <u>Endocrinology</u> , 138(4):1771-4 (Apr 1997). ABSTRACT ONLY.
71.	Zhou, G., et al., <i>Three high mobility group-like sequences within a 48-base pair enhancer of the Col2a1 gene are required for cartilage-specific expression in vivo</i> , <u>J. Biol Chem</u> , 273(24):14989-97 (Jun 12, 1998). ABSTRACT ONLY.

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